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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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of

2

**Complete if Known**

Application Number	10/606,924
Filing Date	June 26, 2003
First Named Inventor	P. van Rooyen
Group Art Unit	2637
Examiner Name	S.K. Ahn
Attorney Docket Number	16100US02

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1				
	A2				
	A3				
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	A5				
	A6				
	A7				
	A8				
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	A11				
	A12				

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	A13					
	A14					
	A15					
	A16					
	A17					

**OTHER ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	A18	D.J. van Wyk et al., "On the Construction of Layered Space-Time Coded Modulation STCM Codes Employing MTCM Code Design Techniques," IEEE VTC '99: Vehicular Technology Conference (Amsterdam, the Netherlands), September 1999, pgs. 2969-2973
	A19	P. van Rooyen et al., Space-Time Processing for CDMA Mobile Communications, Kluwer Academic Publishers, 2000
	A20	D. J. van wyk, "Four-dimensional Q <sub>2</sub> PSK modulation and coding for mobile digital communication," Master's thesis, University of Pretoria, South Africa, April 1996

**EXAMINER  
SIGNATURE****DATE CONSIDERED**

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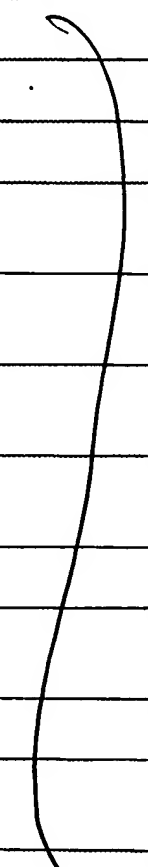
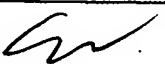
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
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	A21	J.E. Cilliers, et al., "A synchronous Q <sup>2</sup> PSK DS-CDMA system: System conceptualism, implementation and performance analysis," in Proceedings of ISSSTA '98, (Sun City, South Africa), September 1998, pgs. 4-8
	A22	G. Ungerboeck, "Channel coding with Multilevel/Phase signals," IEEE Transactions on Information Theory, vol. IT-28, January 1982, pgs. 55-67
	A23	G. Ungerboeck, "Trellis-Coded Modulation with redundant signal sets - Part 1: Introduction," IEEE Communications, vol. 25, February 1987, pgs. 5-11
	A24	G. Ungerboeck, "Trellis-Coded Modulation with redundant signal sets - Part II: State of the art," IEEE Communications Magazine, vol. 25, February 1987, pgs. 12-21
	A25	G. D. Boudreau, et al., "A comparison of trellis coded versus convolutionally coded spread-spectrum multiple-access systems," IEEE Journal on Selected Areas of Communication, vol. 8, May 1990, pgs. 628-640
	A26	D. Divsalar et al., "The design of Trellis Coded MPSK for fading channels: Performance Criteria," IEEE Transactions on Communications, vol. 36, September 1988, pgs. 1004-1012
	A27	D. Divsalar et al., "The design of Trellis Coded MPSK for fading channels: Set Partitioning for optimum code design," IEEE Transactions on Communications, vol. 36, September 1988, pgs. 1013-1021
	A28	V. Tarokh, et al., "Space-time codes for high data rate wireless communication: Performance criterion and code construction," IEEE Transactions on Information Theory, vol. 44, March 1998, pgs. 744-765
	A29	E. Biglieri, et al., <u>Introduction to Trellis-Coded Modulation with Applications</u> , Macmillan, 548 pgs., 1991
	A30	D. J. van Wyk, et al., "A multiple trellis coded Q <sup>2</sup> PSK system for wireless local loop applications," in PIMRC'97: International Symposium on Personal Indoor and Mobile Radio Communications, (Helsinki, Finland), September 1997, pgs. 624-628
	A31	P. Robertson, "Coded modulation scheme employing turbo codes," Electronics Letters, vol. 31, no. 18, 1995, pgs. 1546-1547
	A32	P. Roberston et al., "A novel bandwidth efficient coding scheme employing turbo codes," in ICC'96: International Conference on Communications (Dallas, Texas, USA), June 1996, pgs. 962-967
	A33	D. Divsalar et al., "Multiple Trellis Coded Modulation (MTCM)," IEEE Transactions on Communications, vol. 36, April 1988, pgs. 410-419
		A34

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